

Patent Claims

1. Device for surfing or the like, especially surfboard, with a board-like body having a foam core, which is encased in laminate, and having an upper side and a lower side,

characterized in that

at least the edge region of the front and/or rear longitudinal end and/or the left and/or right side of the board-like body – possibly each end and side – is provided with at least two woven laminate plies, at least one of which extends from the upper side to the lower side, or vice versa, about the profile of the corresponding end or side.

2. Device according to claim 1, **characterized in that** respectively at least one woven laminate ply of the upper side and lower side extends about the profile of the front and/or rear longitudinal end and/or the left and/or the right side from the upper side to the lower side, or vice versa.

3. Device according to claim 2, **characterized in that** the respectively at least one woven laminate ply of the upper and lower

side in the edge region of the front and/or rear longitudinal end and/or the left and/or the right side rest directly on one another.

5 4. Device according to claim 1 to 3, **characterized in that** the ratio of the overall laminate layer thicknesses from the upper side to the lower side is in the range of from 6:4 to 5:5.

10 5. Device according to one of the claims 1 to 4, **characterized in that** the overall laminate layer thicknesses from the upper side to the lower side are of the same magnitude.

15 6. Device according to one of the claims 1 to 5, **characterized in that** the number of laminated woven layers of the upper side and lower side is the same.

7. Device according to one of the claims 1 to 6, **characterized in that** the layer thicknesses of the individual woven layers are at least nearly identical.

20 8. Device according to one of the claims 1 to 7, **characterized in that** the woven materials are chemically similar.

9. Device according to one of the claims 1 to 8, **characterized in that** at least a portion of the woven layers of the upper and lower sides, in the edge region of at least one front and/or rear longitudinal end and/or left and/or right side, is arranged in an alternating sequence.

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10. Device according to claim 9, **characterized in that** all of the woven layers of the upper and lower sides, in the edge region of at least one front and/or rear longitudinal end and/or left and/or right side, are arranged in an alternating sequence.

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11. Device according to one of the claims 1 to 10, **characterized in that** the woven material comprises glass fibers and/or aramid.

12. Device according to one of the claims 1 to 11, **characterized in that** the weight per unit area of the woven material is 80g/m² to 330g/m² for glass fibers, and 60g/m² to 240g/m² for aramid.

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13. Device according to one of the claims 1 to 12, **characterized in that** the woven material unidirectionally corresponds to at least one of the types of weave from the group linen, twill 1/3, twill 2/2.

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14. Device according to one of the claims 1 to 13, **characterized in**

that the foam core is composed of polyurethane or polystyrene.

15. Device according to one of the claims 1 to 14, **characterized in that** the foam core has a closed cell structure.

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16. Device according to one of the claims 1 to 15, **characterized in that** the woven plies of the laminate are soaked in epoxy resin.

17. Device according to one of the claims 1 to 16, **characterized in that** it has no stringer.

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18. Device according to one of the claims 1 to 17, **characterized in that** the inner surface of the foam core is essentially free of dust.

19. Device according to one of the claims 1 to 18, **characterized in that** the overlap of the woven laminate plies in the edge region of the board-like body in the peripheral direction of the body extends over a substantial portion of the length of the body, preferably essentially over the entire length of the body in the direction thereof.

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20. Device according to one of the claims 1 to 19, **characterized in that** the board-like body is provided in the region of its surface,

especially on its surface, with a UV-resistant material.

21. Device according to claim 20, **characterized in that** the UV-resistant material is contained in the laminate or forms a coating of the board-like body.

22. Method of producing a device for surfing or the like, especially a surfboard, in particular according to one of the claims 1 to 21,

characterized in that:

encasing, in a laminating manner, at least an edge region of the front and/or rear longitudinal end and/or the left and/or the right side of the foam core of the board-like body with at least one woven ply from the upper side to the lower side, or vice versa, about the profile, whereby after complete lamination, at least the edge region of the corresponding end or side that has the at least one woven ply is provided with at least one further woven laminate ply.

23. Method according to claim 2, **characterized in that** respectively at least one woven laminate ply of the upper side and lower side extends about the profile of the front and/or rear longitudinal end and/or

the left and/or the right side from the upper side to the lower side, or vice versa.

5 24. Method according to one of the claims 22 to 23, **characterized in that** the respectively at least one woven laminate ply of the upper and lower side in the edge region of the front and/or rear longitudinal end and/or the left and/or the right side rest directly on one another.

10 25. Method according to one of the claims 22 to 24, **characterized in that** the ratio of the overall laminate layer thicknesses from the upper side to the lower side is in the range of from 6:4 to 5:5.

15 26. Method according to one of the claims 22 to 25, **characterized in that** the overall laminate layer thicknesses from the upper side to the lower side are of the same magnitude.

20 27. Method according to one of the claims 22 to 26, **characterized in that** the number of laminated woven layers of the upper side and lower side is the same.

28. Method according to one of the claims 22 to 27, **characterized in that** the layer thicknesses of the individual woven layers are at least

nearly identical.

29. Method according to one of the claims 22 to 28, **characterized in that** the woven materials are chemically similar.

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30. Method according to one of the claims 22 to 29, **characterized in that** at least a portion of the woven layers of the upper and lower sides, in the edge region of at least one front and/or rear longitudinal end and/or left and/or right side, is arranged in an alternating sequence.

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31. Method according claim 30, **characterized in that** all of the woven layers of the upper and lower sides, in the edge region of at least one front and/or rear longitudinal end and/or left and/or right side, are arranged in an alternating sequence.

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32. Method according to one of the claims 22 to 31, **characterized in that** the woven material comprises glass fibers and/or aramid.

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33. Method according to one of the claims 22 to 32, **characterized in that** the weight per unit area of the woven material is 80g/m² to 330g/m² for glass fibers, and 60g/m² to 240g/m² for aramid.

34. Method according to one of the claims 22 to 33, **characterized in that** the woven material unidirectionally corresponds to at least one of the types of weave from the group linen, twill 1/3, twill 2/2.

5 35. Method according to one of the claims 22 to 34, **characterized in that** the foam core is composed of polyurethane or polystyrene.

36. Method according to one of the claims 22 to 35, **characterized in that** the foam core has a closed cell structure.

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37. Method according to one of the claims 22 to 36, **characterized in that** the woven plies of the laminate are soaked in epoxy resin.

15 38. Method according to one of the claims 22 to 37, **characterized in that** the device has no stringer.

39. Method according to one of the claims 22 to 38, **characterized in that** the surface of the foam core is essentially freed of dust particles prior to the lamination.

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40. Method according to one of the claims 22 to 39, **characterized in that** prior to the lamination, resin and/or lightweight filler is applied to

the surface of the foam core.

41. Method according to one of the claims 22 to 40, **characterized in that** the board-like body is provided in the region of its surface, especially on its surface, with a UV-resistant material.

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42. Method according to claim 41, **characterized in that** the UV-resistant material is contained in the laminate or forms a coating of the board-like body.